

SEQUENCE LISTING

<110> Paszty, Christopher
Gao, Yongming

<120> Cysteine Knot Polypeptides: Cloaked-2 Molecules and Uses Thereof

<130> 01017/37428

<150> US 06/208,550
<151> 2000-06-01

<150> US 06/223,542
<151> 2000-08-04

<160> 25

<170> PatentIn version 3.0

<210> 1
<211> 759
<212> DNA
<213> Homo sapiens

<400> 1

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ttcaagaatg atgccacgga aatcatcccc gagctcggag agtaccgccga gcctccaccg 180

gagctggaga acaacaagac catgaaccgg gcggagaacg gagggcgggc tccccaccac 240

ccctttgaga ccaaagacgt gtccgagtac agctgcgcgc agctgcactt caccgcgtac 300

gtgaccgatg ggccgtgccc cagcgccaag ccggtcaccg agctgggtgtg ctccggccag 360

tgcggcccgg cgcgcctgct gcccacgcc atcgccgcgc gcaagtgggtg gcgacctagt 420

gggcccgcact tccgctgcat ccccgaccgc taccgcgcgc agcgcggtgca gctgctgtgt 480

cccggtggtg agggcgccgc cgcgcgcaag gtgcgcctgg tggcctcgtg caagtgcaag 540

cgctccacc gcttccacaa ccagtcggag ctcaaggact tcgggaccga ggccgctcgg 600

ccgcagaagg gccggaagcc gcggccccgc gcccgagcg ccaaagccaa ccaggccgag 660

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<211> 190
<212> PRT
<213> Homo sapiens

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00867274-052901

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1 5 10 15
Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Leu Glu Asn Asn Lys Thr
20 25 30
Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Phe Glu
35 40 45
Thr Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Phe Thr Arg
50 55 60
Tyr Val Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu
65 70 75 80
Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile
85 90 95
Gly Arg Gly Lys Trp Trp Arg Pro Ser Gly Pro Asp Phe Arg Cys Ile
100 105 110
Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly
115 120 125
Glu Ala Pro Arg Ala Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys
130 135 140
Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly
145 150 155 160
Thr Glu Ala Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Arg Ala
165 170 175
Arg Ser Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
180 185 190

<210> 3
<211> 636
<212> DNA
<213> Mus musculus

<400> 3

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ggagagtacc ccgagcctcc tctgagaac aaccagacca tgaaccgggc ggagaatgga 180
ggcagacctc cccaccatcc ctatgacgcc aaagatgtgt ccgagtacag ctgccgcgag 240
ctgcactaca cccgcttcct gacagacggc ccatgccgca gcgccaagcc ggtcaccgag 300
ttggtgtgct ccggccagtg cggccccgcg cggctgctgc ccaacgccat cgggcgcgtg 360
aagtgggtggc gcccgaacgg accggatttc cgctgcatcc cggatcgcta ccgcgcgag 420
cgggtgcagc tgctgtgccc cgggggcgcg gcgccgcgct cgcgcaaggt gcgtctgggtg 480
gcctcgtgca agtgcaagcg cctcaccgcg ttccacaacc agtcggagct caaggacttc 540
gggccggaga ccgcgcggcc gcagaagggt cgcaagccgc ggcccggcgc ccggggagacc 600

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aaagccaacc aggcggagct ggagaacgcc tactag

636

<210> 4
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<212> PRT
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Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Asn Asn Gln Thr Met Asn
20 25 30
Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Tyr Asp Ala Lys
35 40 45
Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Tyr Thr Arg Phe Leu
50 55 60
Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu Val Cys
65 70 75 80
Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile Gly Arg
85 90 95
Val Lys Trp Trp Arg Pro Asn Gly Pro Asp Phe Arg Cys Ile Pro Asp
100 105 110
Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly Ala Ala
115 120 125
Pro Arg Ser Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys Lys Arg
130 135 140
Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly Pro Glu
145 150 155 160
Thr Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Gly Ala Lys Ala
165 170 175
Asn Gln Ala Glu Leu Glu Asn Ala Tyr
180 185

<210> 5
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<212> PRT
<213> Homo sapiens

<400> 5

Met Gln Leu Pro Leu Ala Leu Cys Leu Val Cys Leu Leu Val His Thr
1 5 10 15
Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
20 25 30
Ala Thr Glu Ile Ile Pro Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
35 40 45

006250-4229360

Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
 50 55 60
 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
 65 70 75 80
 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
 85 90 95
 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
 100 105 110
 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
 115 120 125
 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
 130 135 140
 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
 145 150 155 160
 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
 165 170 175
 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
 180 185 190
 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
 195 200 205
 Leu Glu Asn Ala Tyr
 210

<210> 6
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 <213> Mus musculus
 <400> 6

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 20 25 30
 Ala Thr Glu Val Ile Pro Gly Leu Gly Glu Tyr Pro Glu Pro Pro Pro
 35 40 45
 Glu Asn Asn Gln Thr Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro
 50 55 60
 His His Pro Tyr Asp Ala Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu
 65 70 75 80
 Leu His Tyr Thr Arg Phe Leu Thr Asp Gly Pro Cys Arg Ser Ala Lys
 85 90 95
 Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu
 100 105 110
 Leu Pro Asn Ala Ile Gly Arg Val Lys Trp Trp Arg Pro Asn Gly Pro
 115 120 125

00667274-056601

Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu
 130 135 140
 Leu Cys Pro Gly Gly Ala Ala Pro Arg Ser Arg Lys Val Arg Leu Val
 145 150 155 160
 Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu
 165 170 175
 Leu Lys Asp Phe Gly Pro Glu Thr Ala Arg Pro Gln Lys Gly Arg Lys
 180 185 190
 Pro Arg Pro Gly Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
 195 200 205

<210> 7
 <211> 24
 <212> DNA
 <213> Artificial

<220>
 <223> Artificial: PCR primer

<400> 7

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24

<210> 8
 <211> 26
 <212> DNA
 <213> Artificial

<220>
 <223> Artificial: PCR primer

<400> 8

aaaccacgcg cagaggacag aaatgt

26

<210> 9
 <211> 29
 <212> DNA
 <213> Artificial

<220>
 <223> Artificial: PCR primer

<400> 9

gccaggggtg gcaagccttc aagaatgat

29

<210> 10
 <211> 24
 <212> DNA
 <213> Artificial

<220>
 <223> Artificial: PCR primer

<400> 10

105250-11223350

24

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<210> 11
<211> 27
<212> DNA
<213> Artificial
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<220>
<223> Artificial: PCR primer

<400> 11

ccatcctaatacgaactcactatagggc

27

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<210> 12
<211> 24
<212> DNA
<213> Artificial
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<220>
<223> Artificial: PCR primer
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<400> 12

tgtcaggaag cgggtgtagt gcag

24

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<210> 13
<211> 23
<212> DNA
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<220>
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23

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<210> 14
<211> 25
<212> DNA
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<220>

<223> Artificial: PCR primer

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25

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<211> 21
<212> DNA
<213> Artificial
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<220>
<223> Artificial: PCR primer

<400> 15

tacacccgct tcctgacaga c

21

<210> 16
<211> 27
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<220>
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<400> 16

ccatcctaatac gactcact atagggc

27

<210> 17
<211> 21
<212> DNA
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<220>
<223> Artificial: PCR primer

<400> 17

ggtcaccgag ttggtgtgct c

21

<210> 18
<211> 23
<212> DNA
<213> Artificial

<220>
<223> Artificial: PCR primer

<400> 18

actcactata gggctcgagc ggc

23

<210> 19
<211> 45

<212> DNA
<213> Artificial

<220>
<223> Artificial: PCR primer

<400> 19

cgtactagta agcttcacc atgcagccct cactagcccc gtgcc

45

<210> 20
<211> 41
<212> DNA
<213> Artificial

<220>
<223> Artificial: PCR primer

<400> 20

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tttggatccc gatcgctagt aggcgttctc cagctccgcc t

41

<210> 21
<211> 27
<212> DNA
<213> Artificial

<220>
<223> Artificial: PCR primer

<400> 21

tgtgtctcgt ctgcctgctg gtacaca

27

<210> 22
<211> 23
<212> DNA
<213> Artificial

<220>
<223> Artificial: PCR primer

<400> 22

gaagtcgggc ccactaggtc gcc

23

<210> 23
<211> 11
<212> PRT
<213> Artificial: HIV TAT peptide

<400> 23

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
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<210> 24
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Artificial: FITC conjugated - HIV TAT peptide construct

<400> 24

Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10 15

<210> 25
<211> 183
<212> PRT
<213> Homo sapiens

<400> 25

Phe Lys Asn Asp Ala Thr Glu Ile Leu Tyr Ser His Val Val Lys Pro
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Val Pro Ala His Pro Ser Ser Asn Ser Thr Leu Asn Gln Ala Arg Asn
20 25 30

006674-052901

Gly Gly Arg His Phe Ser Asn Thr Gly Leu Asp Arg Asn Thr Arg Val
 35 40 45

Gln Val Gly Cys Arg Glu Leu Arg Ser Thr Lys Tyr Ile Ser Asp Gly
 50 55 60

Gln Cys Thr Ser Ile Ser Pro Leu Lys Glu Leu Val Cys Ala Gly Glu
 65 70 75 80

Cys Leu Pro Leu Pro Val Leu Pro Asn Trp Ile Gly Gly Gly Tyr Gly
 85 90 95

Thr Lys Tyr Trp Ser Arg Arg Ser Ser Gln Glu Trp Arg Cys Val Asn
 100 105 110

Asp Lys Thr Arg Thr Gln Arg Ile Gln Leu Gln Cys Gln Asp Gly Ser
 115 120 125

Thr Arg Thr Tyr Lys Ile Thr Val Val Thr Ala Cys Lys Cys Lys Arg
 130 135 140

Tyr Thr Arg Gln His Asn Glu Ser Ser His Asn Phe Glu Ser Met Ser
 145 150 155 160

Pro Ala Lys Pro Val Gln His His Arg Glu Arg Lys Arg Ala Ser Lys
 165 170 175

Ser Ser Lys His Ser Met Ser
 180

100250-1122350